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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/253,995	02/22/1999	YOSHIHIRO SAGA	B208-1021	6335

26272 7590 10/24/2003

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NEW YORK, NY 10017

EXAMINER

HANNETT, JAMES M

ART UNIT	PAPER NUMBER
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2612

DATE MAILED: 10/24/2003

12

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/253,995

Applicant(s)

SAGA, YOSHIHIRO

Examiner

James M Hannett

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 September 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 41,43 and 47-50 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 41,43 and 47-50 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 February 1999 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 41 and 47⁵⁰ have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

- 1: Claims 41⁴⁷⁻⁵⁰ are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 5,146,592 Pfeiffer et al in view of USPN 5,826,035 Hamada et al.
- 2: As for Claim 41, Pfeiffer et al teaches in Figure 1 the use of an image capture apparatus comprising: an image capture unit adapted (10) to capture image data, Column 5, Lines 58-66. Pfeiffer et al teaches that the image capture apparatus has storage means for storing image data. Pfeiffer et al teaches on Column 22, Lines 33-40 that the image capture apparatus has a video DRAM refresh controller having a number of programmable registers for defining the various timing constraints and operations of the controller. Pfeiffer et al teaches on Column 23, Lines 20-34 that the image processing apparatus is capable of performing a first process of screen refresh and a second process of the image algorithm processor and states that both processes can access the image memory. Pfeiffer et al teaches on Column 23, Lines 24-32 that an arbitration circuit is provided to determine the priority of the various requests to access memory. Pfeiffer et al teaches that the screen refresh function of the video DRAM shift registers is given top priority

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(which is viewed as the process of storing the image data), followed by refresh of the DRAM cells, and then address request from the image algorithm processor. Pfeiffer et al teaches on Column 26, Lines 56-68 that the image capture unit permits the refresh control unit to refresh the memory in a blanking period, Pfeiffer et al teaches on Column 9, Lines 7-23 that the image algorithm processor carries out substantially all of the image and graphics address computations for providing data to the image computer. Pfeiffer et al teaches that the image algorithm processor is the master controller of the image computer, providing addresses for the image memory and thus data for the parallel image processor set in carrying out data processing tasks.

Hamada et al teaches on Column 9, Lines 44-57 the use of including compression and expansion algorithms in an image processor in order to allow image data to be stored in a smaller required memory size.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include compression and expansions capabilities in the image processor in order to allow the image data to be stored in a reduced memory size.

Furthermore, because the image algorithm processor is used to perform compression and expansion, and carries out substantially all of the image and graphics address computations for providing data to the image computer and that it is the master controller of the image computer. It is viewed by the examiner that the image algorithm processor is an image compression unit. Therefore, the image compression unit permits the refresh control unit to refresh the memory every time a predetermined time is passed; Column 22, Lines 33-40.

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3: As for Claim 43, Pfeiffer et al teaches that the image processing system includes an image capture unit (10) adapted to capture image data, Therefore, The system as taught by Pfeiffer et al is viewed as a digital camera.

4: As for Claim 47, Pfeiffer et al teaches in Figure 1 the use of an image processing apparatus comprising: an image capture unit adapted (10) to capture image data, Column 5, Lines 58-66. Pfeiffer et al teaches that the image processing apparatus has storage means for storing image data. Pfeiffer et al teaches on Column 22, Lines 33-40 that the image processing apparatus has a video DRAM refresh controller having a number of programmable registers for defining the various timing constraints and operations of the controller. Pfeiffer et al teaches on Column 23, Lines 20-34 that the image processing apparatus is capable of performing a first process of screen refresh and a second process of the image algorithm processor and states that both processes can access the image memory. Pfeiffer et al teaches on Column 23, Lines 24-32 that an arbitration circuit is provided to determine the priority of the various requests to access memory. Pfeiffer et al teaches that the screen refresh function of the video DRAM shift registers is given top priority (which is viewed as the process of storing the image data), followed by refresh of the DRAM cells, and then address request from the image algorithm processor. Pfeiffer et al teaches on Column 9, Lines 7-23 that the image algorithm processor carries out substantially all of the image and graphics address computations for providing data to the image computer. Pfeiffer et al teaches that the image algorithm processor is the master controller of the image computer, providing addresses for the image memory and thus data for the parallel image processor set in carrying out data processing tasks. Pfeiffer et al teaches on Column 26, Lines 56-

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68 that the image capture unit permits the refresh control unit to refresh the memory in a blanking period,

Hamada et al teaches on Column 9, Lines 44-57 the use of including compression and expansion algorithms in an image processor in order to allow image data to be stored in a smaller required memory size.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include compression and expansions capabilities in the image processor in order to allow the image data to be stored in a reduced memory size.

Furthermore, because the image algorithm processor is used to perform compression and expansion, and carries out substantially all of the image and graphics address computations for providing data to the image computer and that it is the master controller of the image computer. It is viewed by the examiner that the image algorithm processor is an image compression unit. Therefore, the image compression unit permits the refresh control unit to refresh the memory every time a predetermined time is passed; Column 22, Lines 33-40.

5: In regards to Claim 48, Pfeiffer et al teaches the refresh control unit is also adapted to assign a higher priority to a process of displaying the image data stored in the memory than the process of refreshing the memory. Pfeiffer et al teaches on Column 21 and 22, Lines 67-68 and 1-13 that the screen refresh controller enables serial shift registers of the video DRAMs to be sequentially loaded and shifted in a timely manner to provide raster scan pixel data for a monitor. Pfeiffer et al teaches on Column 26, Lines 56-68 that the arbitration means performs a refresh request during the horizontal blanking period of the image data being displayed on the monitor.

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6: As for Claim 49, The compression and expansion capabilities as discussed in Claim 47 are viewed as the process of processing the image data by changing a size of the image data.

7: In regards to Claim 50, Pfeiffer et al teaches that the image processing system includes an image capture unit (10) adapted to capture image data, Therefore, The system as taught by Pfeiffer et al is viewed as a digital camera.

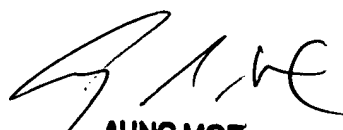
Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. USPN 5,016,107 Sasson et al teaches the use of enabling an image processor to perform image compression and expansion algorithms.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James M Hannett whose telephone number is 703-305-7880. The examiner can normally be reached on 8:00 am to 5:00 pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber can be reached on 703-305-4929. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-842-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to customer service whose telephone number is 703-308-6789.


AUNG MOE
PRIMARY EXAMINER

James Hannett
Examiner
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JMH

October 3, 2003